

1 together. I will read it to you. Central Kitsap,
2 Northshore, Kent, Highline, Tacoma, which we just
3 finished, Vancouver, Mukilteo, Mead, if the board
4 passes tomorrow night, Spokane, Puyallup, Moses Lake,
5 Bremerton, Yakima, Shoreline, Mercer Island and
6 Bellevue. I'm not sure where Bellevue is in the
7 process.

8 CHAIRMAN NELSON: Now, those are clients of
9 yours that you helped?

10 MR. JACOBS: Not all of those are clients
11 of mine. About half of them. These are projects that
12 I heard about that were more along the lines of what
13 Mr. Bookey had talked about earlier. Just a few
14 points that I would like to make, try and be as brief
15 as possible. Because of the demand on the
16 telecommunications budgets in schools and the pressure
17 that's put on those budgets we would like to ask that
18 you include a discount in the telecommunications
19 bills. Tacoma School District with a new network,
20 avoiding the OPS tariff is still a \$300,000 bill a
21 year. Even though their budget is much higher than
22 that, still a goodly sum as far as I'm concerned. And
23 the network that we put in in Tacoma is a little over
24 \$2 million for the upfront charges, the equipment, all
25 of the U S WEST one time charges, and that is only a

1 third -- a third of what the network will cost
2 overall. Ongoing charges will be another 20 to 25
3 percent and the rest is support, maintenance,
4 personnel, to support the up to 32,000 students that
5 that network is designed to support. So, again,
6 there's pressure on the telecommunications budget.

7 One of the things that has come up today
8 and everyone has been talking about are the ongoing
9 costs, but for a moment I would like to talk about the
10 nonrecurring costs within the local service provider's
11 network, T1 costs. Entrance facilities in schools
12 especially before 1975 are usually five pair, six pair
13 drop wire. You cannot deliver a T1 on that. So the
14 school district incurs the cost of trenching and
15 putting in conduit to a telephone pole or to the
16 property line where U S WEST will then connect to it
17 and pull in new wire for a T1. This can range
18 anywhere from -- one of them we did was about \$1500
19 and I think the largest one that we had to do was
20 \$12,000. So those kind of costs as well. They're not
21 direct from the telephone company itself but they are
22 part of delivering that service.

23 Another pressure on the telecommunications
24 budget is the new 911 requirement for any systems that
25 go in after January 1st, 1997. Those systems have to

1 give a location within a school and a classroom.
2 That's the big problem. Within schools it has been a
3 tradition and a very good practice to save money and
4 use intercom systems behind key systems. Once you put
5 in a key system everything looks the same and then you
6 put an intercom behind it, there's no way that you can
7 pass a classroom location to the 911 service. What
8 this forces is the schools to buy a much more
9 expensive either hybrid or PBX to put on the end of
10 this digital service that everyone is talking about.
11 Estimated cost for an elementary school, a key system
12 can cause 10, \$12,000. A hybrid PBX you're looking at
13 35, 30, 35, somewhere in there.

14 CHAIRMAN NELSON: Now, that's a state
15 requirement?

16 MR. JACOBS: That's a state requirement.

17 CHAIRMAN NELSON: Or is that FCC
18 requirement?

19 MR. JACOBS: No, it's not, but it's
20 pressure on the telecommunications budget as well. I
21 think the last point that I would like to go into is
22 we've heard in testimony today that it's a good
23 practice to have volunteers wire schools, and there
24 are a couple of problems with that. Within the wiring
25 industry manufacturers, there are certified people to

1 install category 5 or ten base T wiring. There are
2 very stringent requirements for that, because not only
3 are we buying the ten megabyte service today that we
4 may use but the ability to use it for 100 megabytes in
5 the future. When we have that requirement volunteers
6 typically don't have the expertise let alone the
7 certification to install that, and then if you talk to
8 L and I, any work is a prevailing wage contract, and
9 I've been through this two or three times with
10 different school districts trying to figure out
11 apprentices or some way to lower costs of wiring
12 schools, and L and I will not budge on this subject.
13 It is prevailing wage, and school districts don't want
14 to put themselves in the situation of having to go
15 back and pay volunteers.

16 One of the costs that we've talked about
17 today is wiring schools. That's a hidden cost, and if
18 you would like more information on it we're designing
19 LANs for Spokane School District. We're in the middle
20 of that project but two of the high schools are within
21 \$20,000 of \$300,000 a piece to wire for local area
22 networks within that school. So, I would hope that
23 however this comes out and whatever influence you have
24 within the FCC that this money being dispersed would
25 go into the school budget some way, not just for

1 offsetting telephone bills but maybe some grant type
2 of funding for wiring schools or that kind of
3 mechanism.

4 JUDGE FFITCH: Any questions?

5 CHAIRMAN NELSON: Well, let's just
6 explore that last point a little bit. Grant type of
7 funding. A lot of people don't want to create a huge
8 administrative bureaucracy to do this. How would we
9 set up something that would be simple that one could
10 assume that the money reached its intended
11 destination?

12 MR. JACOBS: We are talking about the
13 federal government? I'm not sure how to do that. I
14 do know that there are a lot of schools that have
15 wonderful programs from the way I look at them.
16 They're cost-effective and that sort of thing and they
17 don't get funded in their grant program. I am not
18 sure how to -- that mechanism.

19 CHAIRMAN NELSON: I should tell you, the
20 way we do universal service now we have some -- the
21 interexchange carriers mostly collect the money and
22 then it's handed out to a universal couple thousand
23 carriers. There's more than 100,000 school districts
24 in this country so you can see the administrative --

25 MR. JACOBS: Nightmare.

1 CHAIRMAN NELSON: Just setting up the right
2 institution becomes a problem and then sort of
3 insuring that the funds really are used and for their
4 intended purposes is a big challenge, so any help you
5 can provide in that, if you get a brainstorm after
6 this hearing please let us know.

7 COMMISSIONER GILLIS: Just to follow up on
8 that. You listed a fairly long list of school
9 districts in this state that already are utilizing
10 some high speed access to Internet, data access to the
11 schools.

12 MR. JACOBS: Infrastructure within the
13 school districts.

14 COMMISSIONER GILLIS: Are there any
15 creative examples in that list of the way schools have
16 put together the upfront money to construct the
17 necessary infrastructure?

18 MR. JACOBS: Creative examples. At one of
19 the school districts they went to the bond market and
20 sold bonds. Because of savings on their
21 telecommunications budget they can pay this off in a
22 certain number of years. I don't know about any other
23 other -- as a consultant we try not to ask too many
24 questions. They say, yes, we have the money, go ahead
25 and do it. I do know that one.

1 COMMISSIONER GILLIS: So it's been mostly
2 through standard bonding or taxation. There haven't
3 been -- it hasn't been through fund raising or seeking
4 private donations, those kind of things.

5 MR. JACOBS: Correct. Because there is a
6 breakeven point compared to most of the services that
7 they're using -- that they were using prior to the
8 network.

9 COMMISSIONER GILLIS: You mentioned you're
10 involved with wiring schools. Are schools typically
11 wired for every classroom or are there centers within
12 the school or what's the typical?

13 MR. JACOBS: It depends on the school
14 district, and the board requirement for the number of
15 computers to student. Tacoma and Spokane school
16 districts are using a wire -- fiber to the classroom
17 design that actually works out cheaper than multiple
18 category 5 connections to that classroom, so that
19 fiber is connected to the classroom and then there's
20 a small hub that is put on it and category 5 wire is
21 run within the room, and actually when I mentioned the
22 300,000 mark that's saving -- there are savings
23 included in that from wiring it with a standard
24 category 5 situation where you have an MDF and you
25 wire out from that, then you run fiber to an

1 intermediate distribution point, then you wire to that
2 as well.

3 COMMISSIONER GILLIS: Thank you.

4 CHAIRMAN NELSON: One more question. Have
5 you found wireless LANs could be useful?

6 MR. JACOBS: When we were doing Stadium
7 High School in Tacoma I wish we could have used them
8 because it was a nightmare. Actually, the wireless
9 LANs are not -- not generally in the high speed arena
10 that we're looking for in a school of ten megabits or
11 more.

12 JUDGE FFITCH: Thank you very much for your
13 comment. Wally Fowler.

14 MR. FOWLER: Thank you. My remarks will be
15 mercifully brief. I'm Wally Fowler from TDS Telecom.
16 I'm the director of commercial market for the western
17 region of TDS Telecom. TDS Telecom is an independent
18 telephone company which is made up of 105 rural
19 independent telephone companies around the country.
20 Our western region headquarters is in Washington
21 state, and there are three companies in Washington
22 state that belong to the TDS Telecom family of
23 companies. That's McDaniel, Lewis River and Asotin
24 telephone companies, so we are a local exchange
25 provider in the state of Washington as well as many

1 other places.

2 And a couple of remarks that I would like
3 to make is that, as I said, our business is rural
4 telephone companies, so we're certainly no stranger to
5 the problems and opportunities of rural telephone
6 companies and have been working with them for many
7 years, and, in the rural landscape, our rural
8 telephone companies find themselves working very
9 closely with the local schools and the local
10 libraries. Number one, of course, are large customers
11 but as well as partners in the community so that our
12 local telephone companies are aware and become part of
13 the planning process of upgrading the
14 telecommunications infrastructure in the libraries and
15 schools in the rural community, as well as
16 participating in supportive programs like
17 scholarship programs and essay contests, and very
18 often some of our people will be teaching courses at
19 the local schools from time to time.

20 Over the last couple of years with the
21 advent of information super highway notions and
22 requirements and the new Telecommunications Act, we've
23 been working very closely with the schools to answer
24 the question how, for example, do we get Internet in
25 the schools, which is a very common question posed to

1 us. TDS Telecom has an Internet company and in many
2 cases we will work out at a discount a schedule where
3 our TDS Net company can become the Internet provider.
4 When that's not the case, and it isn't always, we also
5 work out with the schools a partnership with other
6 Internet providers which may be in the local calling
7 area of our schools, schools and libraries.

8 Insofar as the question of discounting
9 goes, we've been working with the schools and
10 libraries for some time to explore within the
11 regulatory framework we have at our disposal to offer
12 those discounts, be it Centrex within the Centrex
13 discount structure, or some other handle that we have
14 to provide a discounted service to schools and
15 libraries, and we've been doing that for some time.

16 I guess the point that I would like to make
17 is that we've gone a long way towards, number one,
18 providing the services that are required by the
19 schools and have made probably some pretty good
20 progress in providing those services at a discount or
21 at a fairly aggressive price. We have some facility
22 to provide flow through discount from our position as
23 an authorized distributor of some of the major
24 telecommunications manufacturers, for example. When
25 we look at the issue of subsidies, et cetera, in that

1 very broad issue, some of the things that come to our
2 mind is, number one, there are school districts and
3 libraries that need financial help. There are those
4 that actually do not because we've been able to find
5 other resources to satisfy those telecommunications
6 needs that they do have. In a number of areas where
7 funds have been required to get the very large
8 expenditures in telecommunications covered, we have
9 participated in grant programs, both local grant,
10 Department of Commerce grants. We have participated
11 with the schools in helping them frame and support
12 bond issues, for example, not in Washington but in,
13 for example, state of Oklahoma, we cooperated with
14 Southwestern Bell and the local educational service
15 district to put together a bond issue which was passed
16 which resulted in an asynchronous transfer mode
17 learning distance in Oklahoma.

18 I think in the question and answer to the
19 previous speaker it was brought up the grant programs
20 which have worked so well for us suggest that there's
21 a large bureaucratic infrastructure that those who
22 are with the grant programs certainly don't deny that.
23 I think an advantage of the grant program is that each
24 individual situation is evaluated on a case by case
25 basis. That's the advantage of a grant program rather

1 than a broad brush subsidy which is kind of in a
2 scattered shot approach. That concludes my comment.

3 JUDGE FFITCH: Questions.

4 CHAIRMAN NELSON: Yeah. Earlier speaker
5 mentioned concerns about the inflows and outflows of
6 funds from state to state if it is truly a national
7 fund. Since you operate in many states do you have a
8 view of that? Is there a way we could invest the
9 money where it's raised state by state? Can you think
10 of a federal program on how that could be
11 accomplished?

12 MR. FOWLER: I recognize the problem. I
13 certainly don't have a ready solution. Where we do
14 work what we find is each one of our telephone
15 companies has more unique problems than problems that
16 can be aggregated and I think analyzed state by state
17 necessarily. Some of the major things that we're
18 getting used to on a state by state basis is some
19 states have passed a local competition docket which
20 has changed the planning that we have to deal with
21 that. But when it comes to libraries, school
22 districts and so forth, from our point of view, we
23 best serve them by looking at their own situations on
24 a state by state basis -- on a case by case basis
25 rather than a state by state or total company basis,

1 for that matter, and I think that's part of our
2 advantage and part of the rural advantage, really, is
3 that the closeness of our working relationship with
4 the schools and libraries lets us do that. I don't
5 have a great inspiration to answer that particular
6 question that you posed.

7 CHAIRMAN NELSON: Well, I do recognize
8 local school district autonomy is a real sacred cow in
9 this country, and so to set up a national program that
10 dictates to them that they will do the same thing
11 everywhere I think has a real potential political
12 outrage factor with it and we just heard our 911 rule,
13 which was set up for very good practical purposes, now
14 may be disadvantaging schools with that location
15 requirement and so on, so appreciate your remarks. If
16 you get any brilliant ideas about how to do this
17 administratively simply, I would appreciate it.
18 Commissioner Gillis?

19 COMMISSIONER GILLIS: No.

20 JUDGE FFITCH: Marie-Anne Harkness,
21 Marie-Anne Harkness here?

22 CHAIRMAN NELSON: She took off. I think
23 she left a letter.

24 JUDGE FFITCH: Larry Berg.

25 MR. BERG: Good afternoon, Commissioners,

1 Judge ffitich. I'm going to be speaking wearing
2 several different hats here. The first hat I would
3 like to wear is that of a husband of a primary school
4 teacher, and while my wife Karen has not specifically
5 authorized me to make any comment on her behalf, I am
6 reasonably certain that I will not betray any marital
7 confidences here this afternoon. While a certain
8 level of technological implementation in schools can
9 be achieved by placing on-line specialists in schools,
10 ultimately all teachers need to be proficient in
11 accessing information technology resources. This
12 objective can be met by integrating informational
13 instructional technology into core education
14 curriculum, but, more importantly, we need a just,
15 reasonable and affordable continuing education program
16 for teachers who are currently licensed. Teachers
17 should be provided on-the-job training. To the extent
18 that justice was not obtainable (inaudible) that's the
19 justice part of the formula is on-the-job training.

20 Then an affordable continuing education
21 program is vital. I confess that I'm beginning to
22 exhibit some early warning signs of becoming a grumpy
23 old man someday very soon because I can't believe how
24 expensive things cost these days, but in particular I
25 am thinking of private sector specialized training

1 programs for primary school teachers. I can get
2 continuing legal education units as a lawyer cheaper
3 than my wife can get units as a primary school
4 teacher.

5 The other hat I would like to throw on here
6 is as general counsel to a business known as
7 Interconnected Associates, also referred to by the
8 acronym IXA here in Seattle. IXA is a regional
9 business-to-business Internet service provider. IXA
10 has approximately 40 clients who are also Internet
11 service providers providing dial-up service to their
12 clients. IXA has donated a T1 connection for Nova
13 alternative school in the Seattle School District.
14 This program was selected because it shares many
15 values with IXA's business and we believe that these
16 students will benefit most (inaudible). However, this
17 is not a closed end commitment because there is no
18 traditional curriculum place which can be talked or
19 passed down in the classroom. Consequently, IXA
20 continues to provide training and support to Nova.
21 While private sector infrastructure providers can be
22 encouraged to follow IXA's example and the examples of
23 others, this contribution of infrastructure will be de
24 minimus unless training exists to utilize and
25 integrate this resource into the curriculum. Can

1 universal service contributions be used to meet these
2 needs? Teacher training is fundamental and the cost
3 of passing this buck may be greater than a dollar.
4 Any questions?

5 JUDGE FFITCH: Any questions?

6 COMMISSIONER GILLIS: Just a quick comment,
7 that I think you're right as far as the need for
8 continuing teacher education. These technologies are
9 worthless if people don't know how to use it and
10 schools and teachers are the ones that are openly
11 responsible. I wanted to ask you, if it is late in
12 the day, sort of a philosophical question. Whose
13 responsibility is it to make sure that teachers are
14 appropriately trained?

15 MR. BERG: Well, again, if somehow I was
16 funding the technology equipment that's going to get
17 used I would feel very uncomfortable knowing that I am
18 going to put this technology in the classroom, or I'm
19 somehow going to underwrite providing this resource,
20 and then I'm going to trust it to some other entity to
21 make sure that someone knows how to use it. This is
22 what I meant about passing the buck being greater than
23 a dollar. Although we may find ourselves in a
24 situation where nobody has the power or the ability to
25 bring all of these factors to fruition at the same

1 time, I would hope that there could be some
2 acknowledgement and recognition that there is a human
3 component to this, that we can talk about the
4 importance of educating our kids as much as we want.
5 We can talk about the importance of creating
6 infrastructure into the schools as much as we want,
7 but if a teacher is going to be embarrassed by trying
8 to use the technology that is going to just disrupt
9 her classroom in the process, they're not going to use
10 it, the cost may have to be shared. I'm sure the
11 school district certainly has a vested interest in
12 making sure their teachers are proficient. Teachers
13 themselves have an interest in making sure that they
14 are proficient, but, at the same time, if somebody is
15 going to be funding the infrastructure component, you
16 know, I wouldn't want to buy a car and give the keys
17 to someone who doesn't know how to drive it.

18 COMMISSIONER GILLIS: Thank you.

19 JUDGE FFITCH: Karen Notsund.

20 MS. NOTSUND: Good afternoon. My name is
21 Karen Notsund, and I am the regulatory manager of the
22 Teleport Communications Group. Teleport
23 Communications Group is a nationwide provider of
24 telecommunications services and we're a local exchange
25 carrier in 13 states including in Washington. We have

1 a Seattle network which runs from Tacoma, fiberoptic
2 network which runs from Tacoma to the Canadian border.
3 And TCG supports here and in the other states a
4 discount for schools and libraries because we
5 recognize that it's important to get high speed
6 services to these organizations and that they are
7 operating within limited budgets. However, I would
8 like to reiterate the position that I've heard several
9 times today, that I do think competition is what will
10 also bring a lot of the benefits that one would expect
11 to get from discounts to schools and libraries.

12 Although we have only been -- we've been
13 certified to be a competitive local exchange carrier
14 since 1994 we're still lacking a formal and
15 comprehensive interconnection agreement to really
16 effectively compete against the incumbent. Once we
17 are able to do so TCG will be one of many, I'm sure,
18 local exchange carriers who are going to compete for
19 the services -- to provide services to schools and
20 libraries.

21 We've already done that in other states,
22 and an example that I have is we won a terms contract
23 for the Oakland Public Schools District not too long
24 ago, and we won that bid by coming up with a more
25 creative solution to the district's school needs than

1 had been proposed by the incumbent and because we,
2 under our bid, we would be saving them \$640,000 over
3 the three year contract.

4 We worked extensively with the district
5 staff to determine what their needs were and what
6 would be the best solution for them and put together
7 ultimately the winning bid. I think that demonstrated
8 that the district could make a good economic decision.
9 This was without the discount and they were clearly
10 the beneficiary then of having more than just one
11 company who could bid on their contracts. However, as
12 I said, we do support discounts for schools and
13 libraries.

14 I think there are three key elements to
15 consider in that, and one is flexibility in
16 determining what services are eligible for the
17 discounts. In California they had suggested a list of
18 a few services, and as we've heard from some of the
19 schools today, all different schools have different
20 needs and have different -- come from different
21 starting points and they're in the best position to
22 determine what services they need, and it should be up
23 to -- it should be left flexible to decide which
24 transmission services are eligible for the discounts.

25 The discount also should be carrier and

1 technology neutral so that, again, we're putting the
2 decision making into the hands of the schools and
3 libraries. They can decide what they need and
4 hopefully put that out for competitive bid and see
5 which provider with which package of services best
6 meets their needs at the lowest pricing. I would also
7 suggest, however, though, in order to balance the need
8 to promote competition and make sure there is a robust
9 market with the need to offer affordable services to
10 schools and libraries that there be a cap on the fund,
11 that it not be just this wide open fund with subsidies
12 without any limit to schools and libraries and that
13 instead there be a cap, at least initially, so we can
14 let competition get rolling and provide some of the
15 benefits without just going straight to the subsidies.
16 That's all I have to say today.

17 JUDGE FFITCH: Thank you. Questions?

18 CHAIRMAN NELSON: Do you have any idea what
19 size fund we're talking about?

20 MS. NOTSUND: I don't have a recommended
21 amount. In California they suggested \$20 million and
22 we were comfortable with that.

23 CHAIRMAN NELSON: Ameritech has been
24 around. They've got some sort of formula for figuring
25 out a cap on funding a school or school district --

1 I'm not sure which -- can receive. Some districts
2 have a lot of schools and others that have only a few.
3 How does that sound to you?

4 MS. NOTSUND: Well, I think any time you
5 start putting parameters around it you run the risk of
6 leaving out certain groups. Another one that we've
7 run into is we're putting on a bid where a county
8 wants to link together its schools and libraries and
9 some government offices and so any time you say it's
10 targeted at just the district or just the schools,
11 then you don't allow for the creativity to come up
12 with ways of linking them and perhaps excluding the
13 schools that would like to go into a partnership with
14 any of the government agencies or libraries in their
15 areas.

16 So, again, that's where I think the discount
17 off of tariff prices seems a reasonable alternative.
18 Discount off of company's best price to a commercial
19 business is another alternative but something where
20 you're kind of putting out the menu of services and
21 offering a discount off of that and putting the
22 decision making in the schools and libraries as to how
23 they want to put their systems together either singly
24 or with other entities.

25 CHAIRMAN NELSON: So your proposal, if what

1 I think I just heard, is that you wouldn't need a fund
2 at all. You would have every carrier, say, discount a
3 certain amount and let the schools pick and choose
4 among the discount offer.

5 MS. NOTSUND: No. The fund would pick up
6 the difference between the discounted price and the --

7 CHAIRMAN NELSON: And the tariffed or best
8 commercially available rate, okay, thank you.

9 COMMISSIONER GILLIS: I'm still having a
10 little trouble following that concept. You mentioned
11 the flexibility in deciding what services you receive
12 a discount. What entity receives the flexibility? Is
13 it the company or the user that makes that decision?

14 MS. NOTSUND: What we had recommended
15 before, that the carrier be allowed to offer -- that
16 the telecommunications carrier be allowed to offer the
17 discount off of its -- off of any of the services that
18 it provides, any of the transmission services, and
19 typically with a school or a library would be on a
20 contract basis. So it's just so that as technology
21 changes that you don't identify certain services and
22 then they become outdated and you have to go about --
23 you've added a new service on to your tariff and you
24 have to petition that to be eligible for the discount.
25 You just make it a little bit more open so that

1 anything that fits a certain criteria or, as I said,
2 is a transmission service would automatically meet the
3 discount criteria.

4 COMMISSIONER GILLIS: So would you
5 visualize a situation where there's two competitors,
6 company A and B, and they might discount a different
7 service at the same time, is that what you're saying,
8 depending on what their preferences is with the
9 marketing packages?

10 MS. NOTSUND: Two competitive carriers may
11 offer different discounted services. I suppose that
12 could happen and then, as I said, as they were putting
13 together an offering for a school or a library came to
14 them, it would depend on which service was most
15 attractive to them. One way that we've talked about
16 as far as capping the fund is that the state set what
17 the discount should be and if a carrier decides to
18 discount even more deeply than that that your draw
19 from the fund is limited to the state mandated
20 discount off of the tariff.

21 COMMISSIONER GILLIS: Thank you.

22 JUDGE FFITCH: Anything else? Thank you
23 very much. Dennis Small.

24 MR. SMALL: Good afternoon. My name is
25 Dennis Small. I work at the Superintendent of Public

1 Instruction in Olympia and I'm the educational
2 telecommunications supervisor there. Mouthful.
3 Basically means I work with schools on how to use
4 telecommunications in the classroom. Several pieces
5 of information I think might be helpful today. First
6 of all, we've just completed a survey with the help of
7 the Northwest Regional Lab out of Portland of about 28
8 percent of the school buildings in the state, and as
9 of this time, and this is obviously extrapolating,
10 somewhat dangerous, but it at least gives us a picture
11 in time of approximately two thirds of the buildings
12 have some kind of local area network right now and 81
13 percent plan to have one by June of 1997. About half
14 of the school buildings surveyed have a wide area
15 network and approximately 66 percent of elementary
16 buildings and 83 percent of high school buildings have
17 some level of Internet access. Not necessarily for
18 instructional purposes but just access in general.
19 Student access ranges from almost none in some of
20 those connected places to nearly 20 percent of the
21 buildings where there is universal access, and it's a
22 major tool in the structural process. And so what we
23 see in the state of Washington is a wide range of
24 nonconnectivity all the way up to ubiquitous
25 connectivity within a given school district or school

1 building.

2 The other task I will share with you is
3 that 160 of the 296 districts have a high speed
4 routing connection to the Internet at someplace in
5 their district. Doesn't mean it reaches all the
6 district necessarily but at some point in their
7 district they have at least a 56 kilobit lease line
8 running a high speed routing connection to the
9 Internet. So over half of our school districts have
10 some form of connection at someplace in the district.
11 We also know that student use of that, of Internet,
12 tends to be primarily for information access,
13 approximately 89 percent. Classroom projects, 69
14 percent and E-mail about 35 percent. So, again, it's
15 becoming a constructional tool in many part of our
16 classrooms that have that kind of access.

17 One of our major concerns with the
18 proceedings and the rulemaking is that affordability
19 for our schools means very different things in very
20 different places, and to be truly affordable there has
21 to be some level of flexibility and not just kind of a
22 standard discount that applies everywhere. We've seen
23 discussions from an organization called Ed Link that
24 has kind of a range of approximately 30 to 70 percent
25 discount based on the economic conditions of the local